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## Spectroscopic Study of Vacuum Breakdown Process Under Impulse Voltage

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In order to investigate the evolution of species type during a vacuum breakdown, a spectroscope with a ICCD was adopted to detect the spectrum during the breakdown, and the state of species can be deduced from the spectra. A tip-to-tip gap was installed in a vacuum chamber; the gap distance varied from 0.5 mm to 3 mm; and copper and tungsten were chosen as the cathode and anode material, respectively. Under such conditions, spectra at different stages of the breakdown were obtained and also the state of plasma.

### Type of contribution

Oral

### session

Experiments and Diagnostics

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